

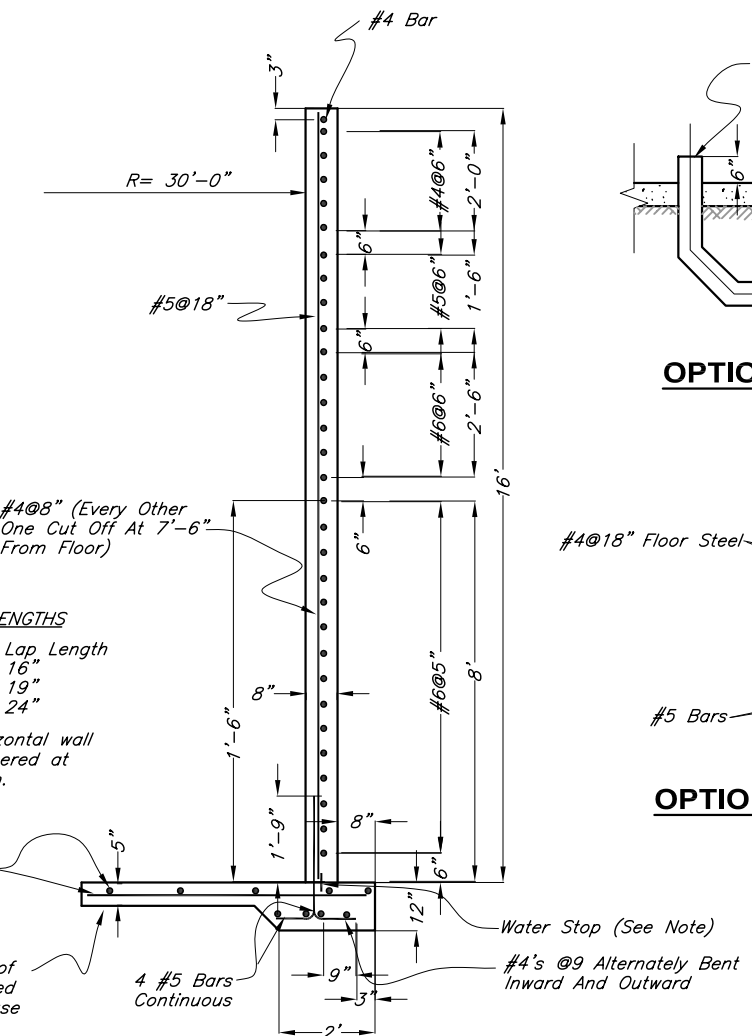
QUARTER PLAN
OF FLOOR STEEL

LAPPED SPLICE LENGTHS

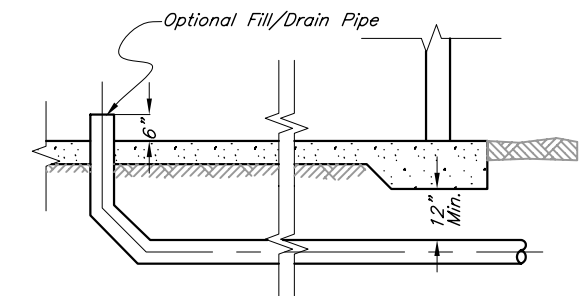
Bar Size	Lap Length
#4	16"
#5	19"
#6	24"

All laps in the horizontal wall steel shall be staggered at least one lap length.

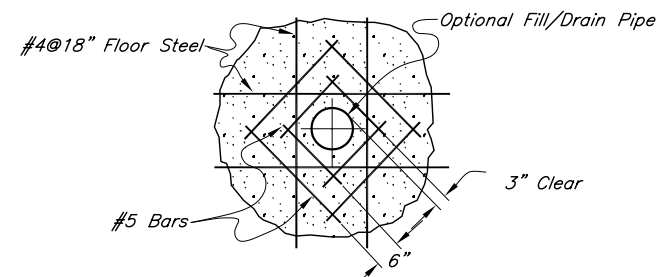
A 3" leveling course of gravel may be provided under the slab for ease of construction.



WALL STEEL
TYPICAL



OPTIONAL FILL/DRAIN PIPE
DETAIL



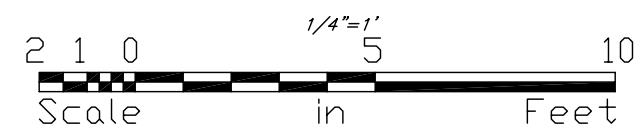
OPTIONAL FILL/DRAIN PIPE
STEEL DETAIL

CONCRETE SPECIFICATIONS

1. The concrete shall have a minimum compressive strength at 28 days of 2000 psi. Minimum cement content shall be 6 bags/cy and minimum net water content shall be 5.2 gal/bag. The slump shall be 2 to 4 inches and the air content shall be 5 to 8% of the volume of concrete.
2. Form shall be mortar tight, substantial and unyielding and shall be constructed so that the finished concrete will conform to the specified dimensions. Metal ties within the forms shall be equipped with a device that permits their removal to a depth of at least 1 inch without injury to the concrete.
3. The concrete shall be deposited as closely as possible to its final position in the forms and shall be worked into the corners and angles of the forms and around all reinforcement. Immediately after placement the concrete shall be consolidated by vibrating.
4. Waterstops shall be held firmly in correct position as the concrete is placed.
5. Forms shall not be removed before 24 hours have elapsed after placement of concrete.
6. Holes produced by the removal of form ties, cone bolts, etc., shall be cleaned, wetted and filled with dry pack mortar.
7. Concrete shall be prevented from drying for a curing period of at least 7 days after it is placed. The slab and footings shall be continuously moist for the entire period or until curing compound is applied. Moisture shall be maintained by sprinkling, flooding, covering with plastic sheeting, continuously moistened canvas, cloth mats, straw, or other approved material. The walls shall be thoroughly wetted immediately after forms are removed and shall be kept wet until patching and repairs are made. After patching and repairs are made, curing compound may be applied in lieu of wetting. Curing compound shall meet the requirements of ASTM C 309 Type 2.
8. Concrete shall not be dropped more than 5 feet vertically unless suitable equipment is used to prevent segregation.

DESIGN AND CONSTRUCTION NOTES:

1. Waterstops shall be 12 gauge by 5" galvanized iron or a non-metallic waterstop of vinyl chloride polymer or copolymer 5" wide, 3/16" incr. thick, double bulb shape or similar. If wall is poured in more than one lift, a waterstop shall be used at each construction joint.
2. Foundation is to be field investigated to determine adequacy to support structure, footing bearing pressure used in design is 1100 psf.
3. Reinforcing steel shall be ASTM Designation A-615 Grade 40. The reinforcing steel mat in the walls and floor shall be centered.
4. The structure is designed for an internal hydrostatic load of 62.5 lbs/cu ft and an external wind load (net) of 10 psf.
5. Warning signs, ladders, ropes, bars, rails and other devices shall be provided as appropriate to insure the safety of people operating pumping equipment, etc. A ladder shall be permanently installed on the inside of the tank adjacent to any ladder mounted on the tank interior.
6. Frost potential should be considered on a site-by-site basis. Additional free-draining rack or other protection methods should be provided as needed.



ABOVE GROUND CIRCULAR CONCRETE

WASTE STORAGE TANK

16' HIGH 50' DIA. 45,200 CU. FT.

Date	8/03
Designed	
Drawn	8/03
Checked	
Approved	



File No.	92005_WasteStorageTank600.dwg
Drawing No.	92005
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